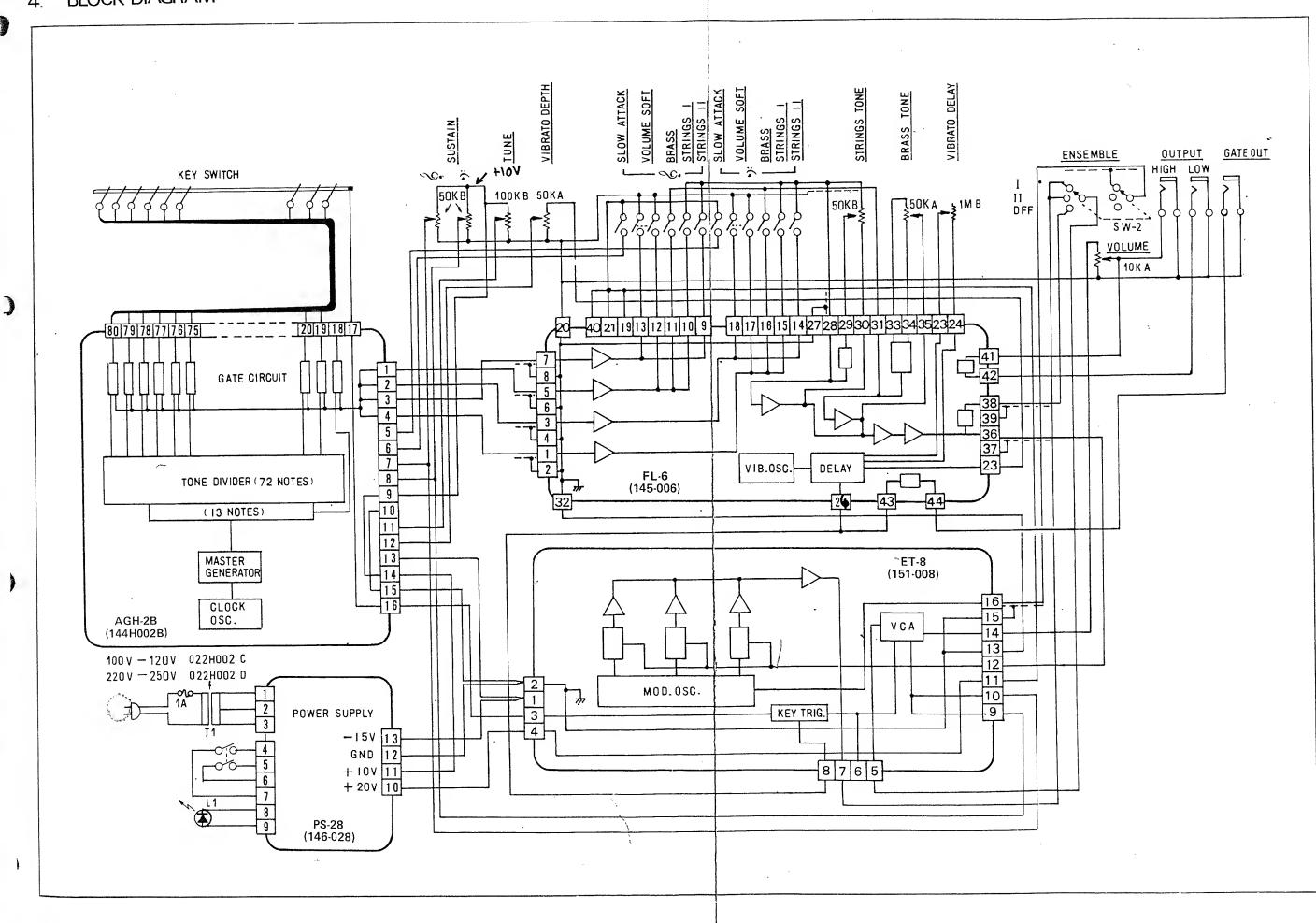
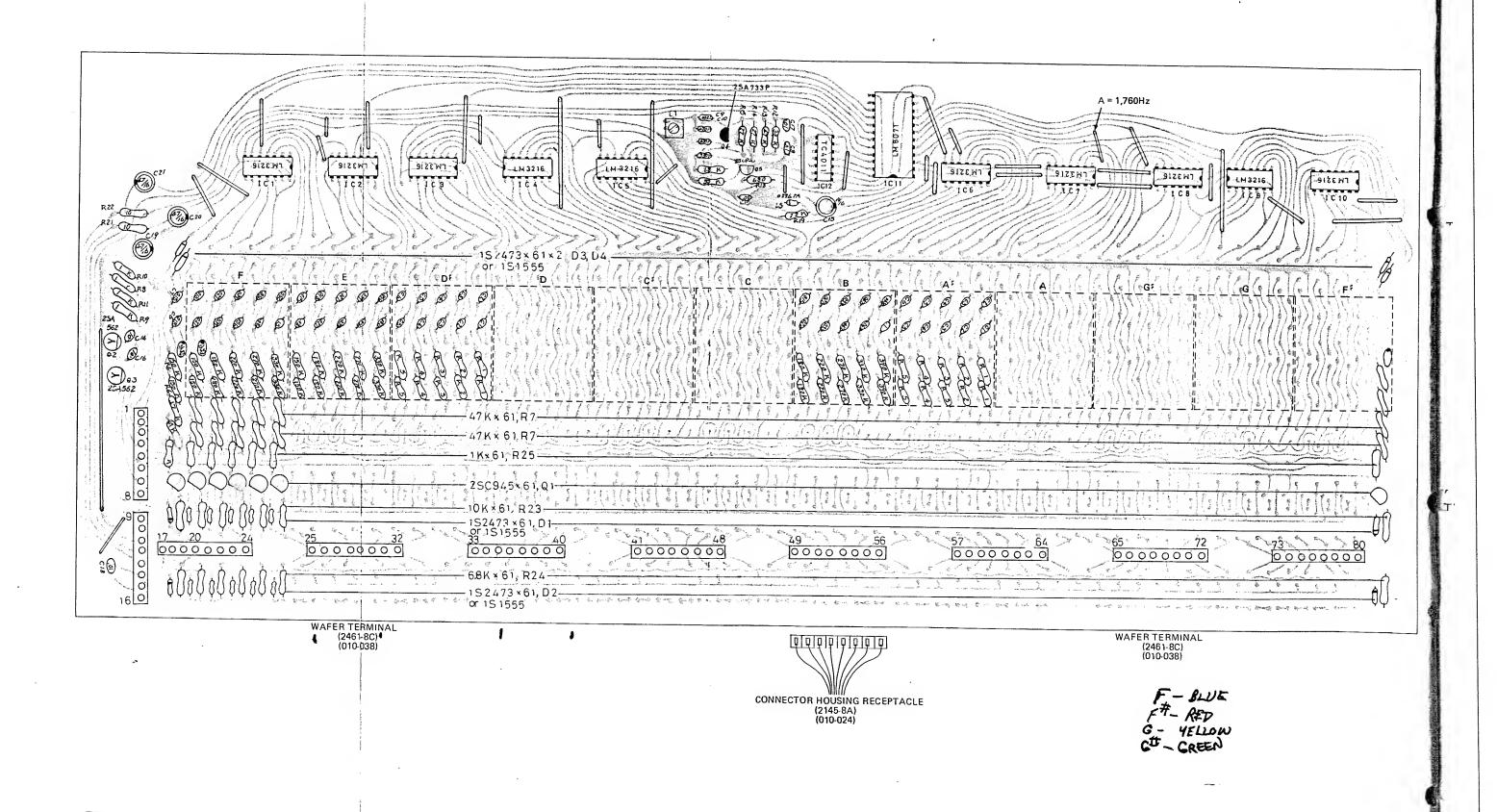
Roland

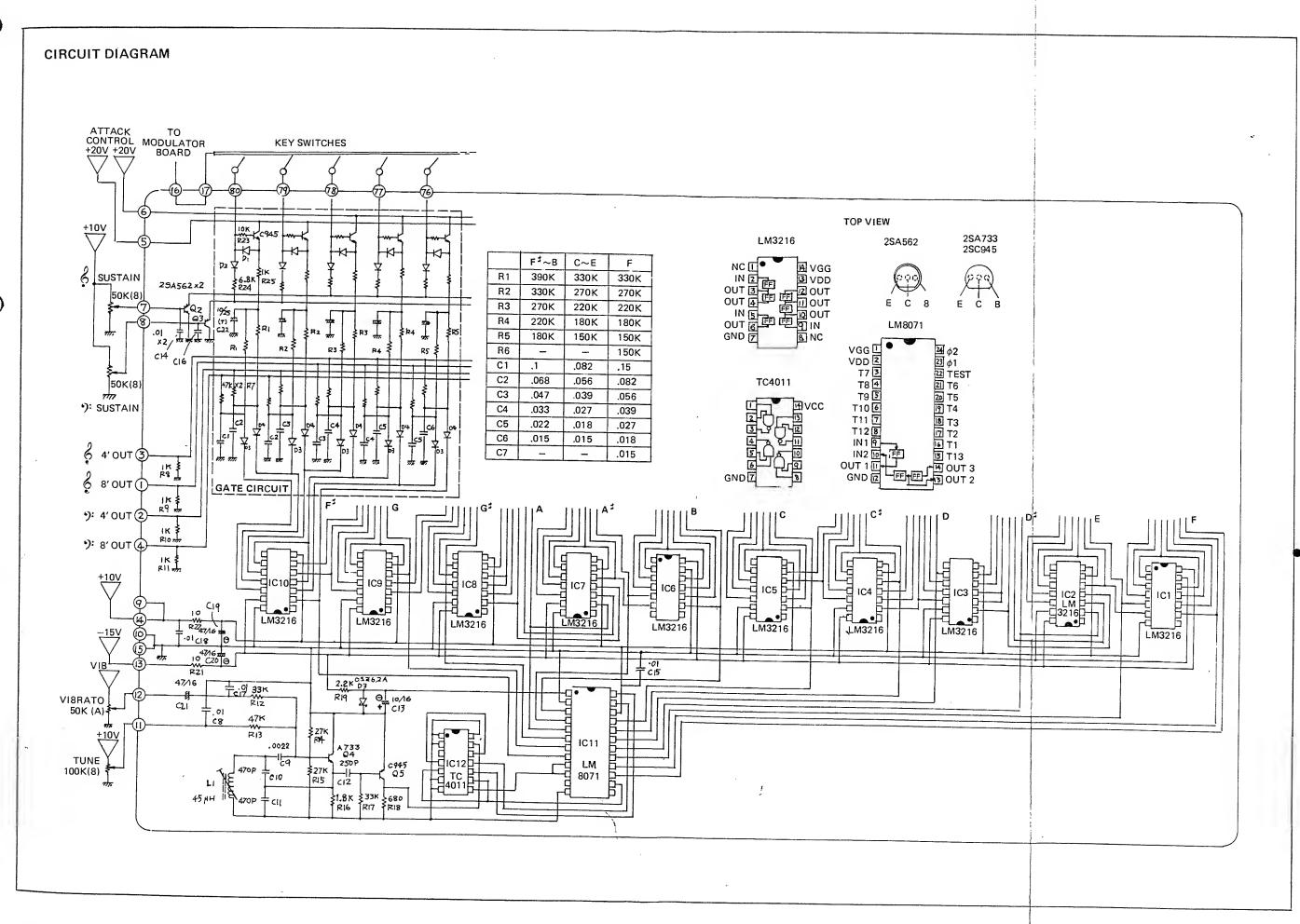
4. BLOCK DIAGRAM



5. TONE GENERATOR AND GATE CIRCUIT (AGH-2B)

PC BOARD, PARTS LAYOUT





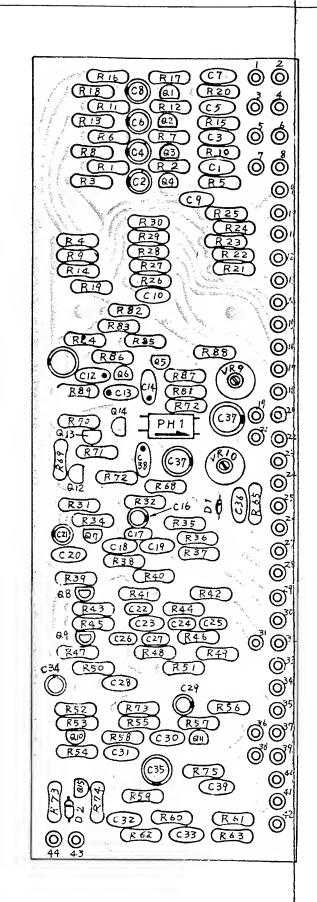
pland

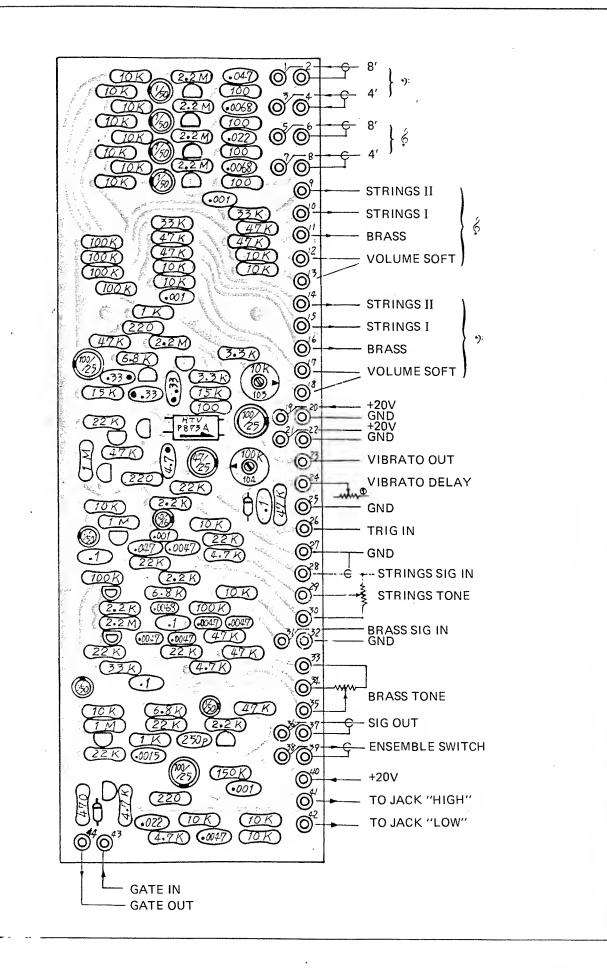
Roland

6

6. TONE CONTROL AND FILTER (FL-6A)

PC BOARD, PARTS LAYOUT





.001

Trimmer Potentiometer

Electrolytic Capacitor

: D 1S2473

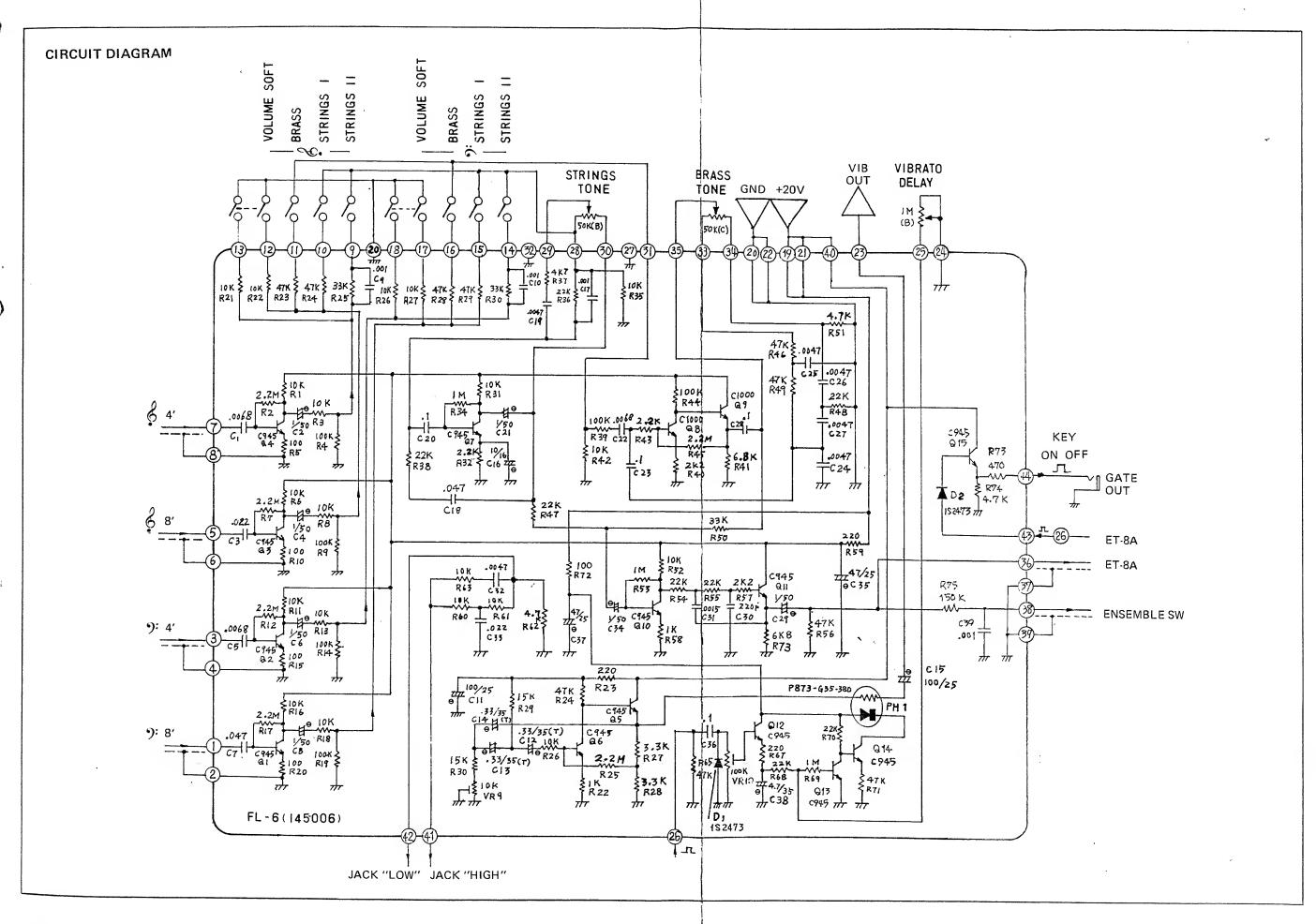
100K): Resistor (R25 type)

: Tr 2SC945 P or Q

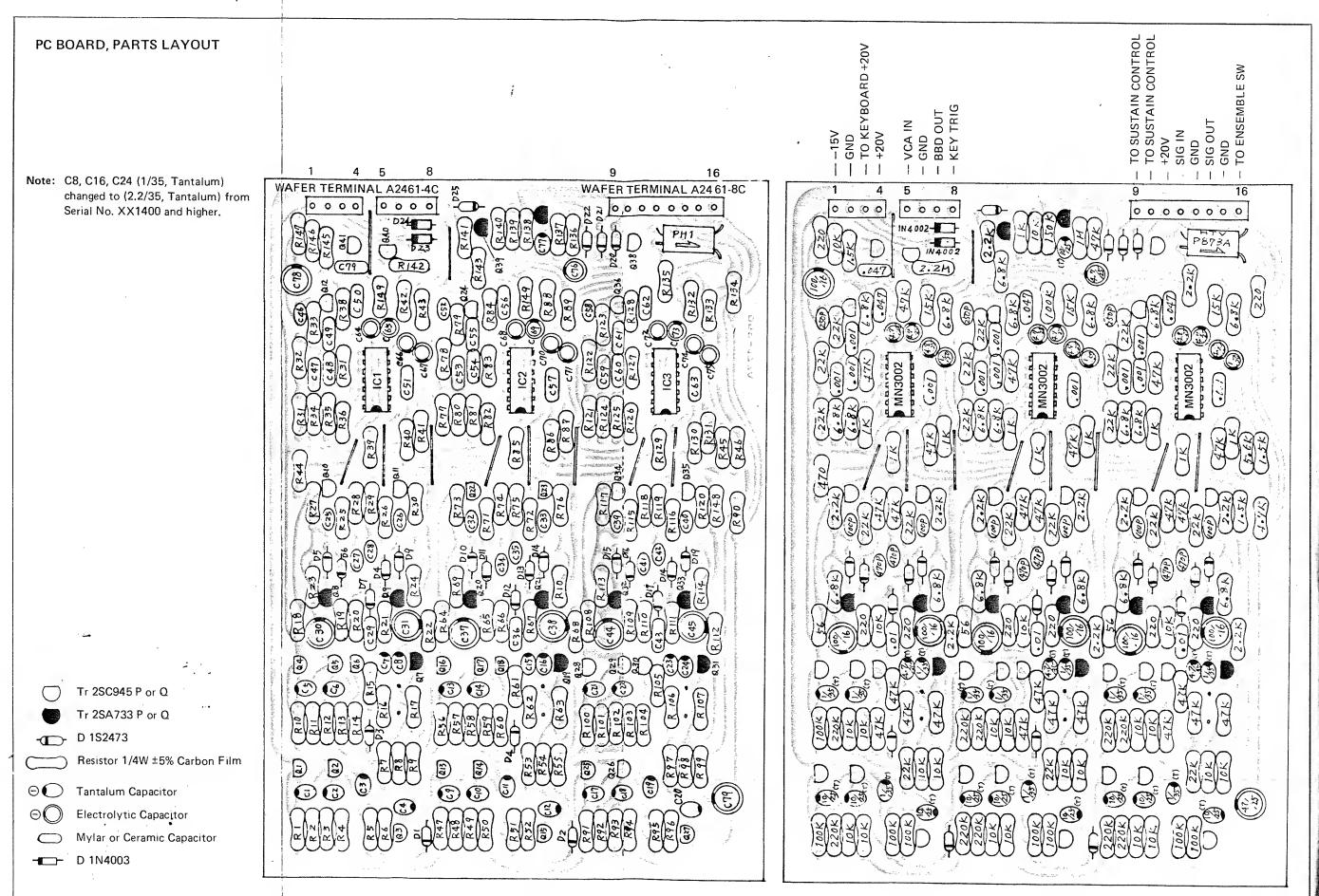
Tr 2SC1000 GR

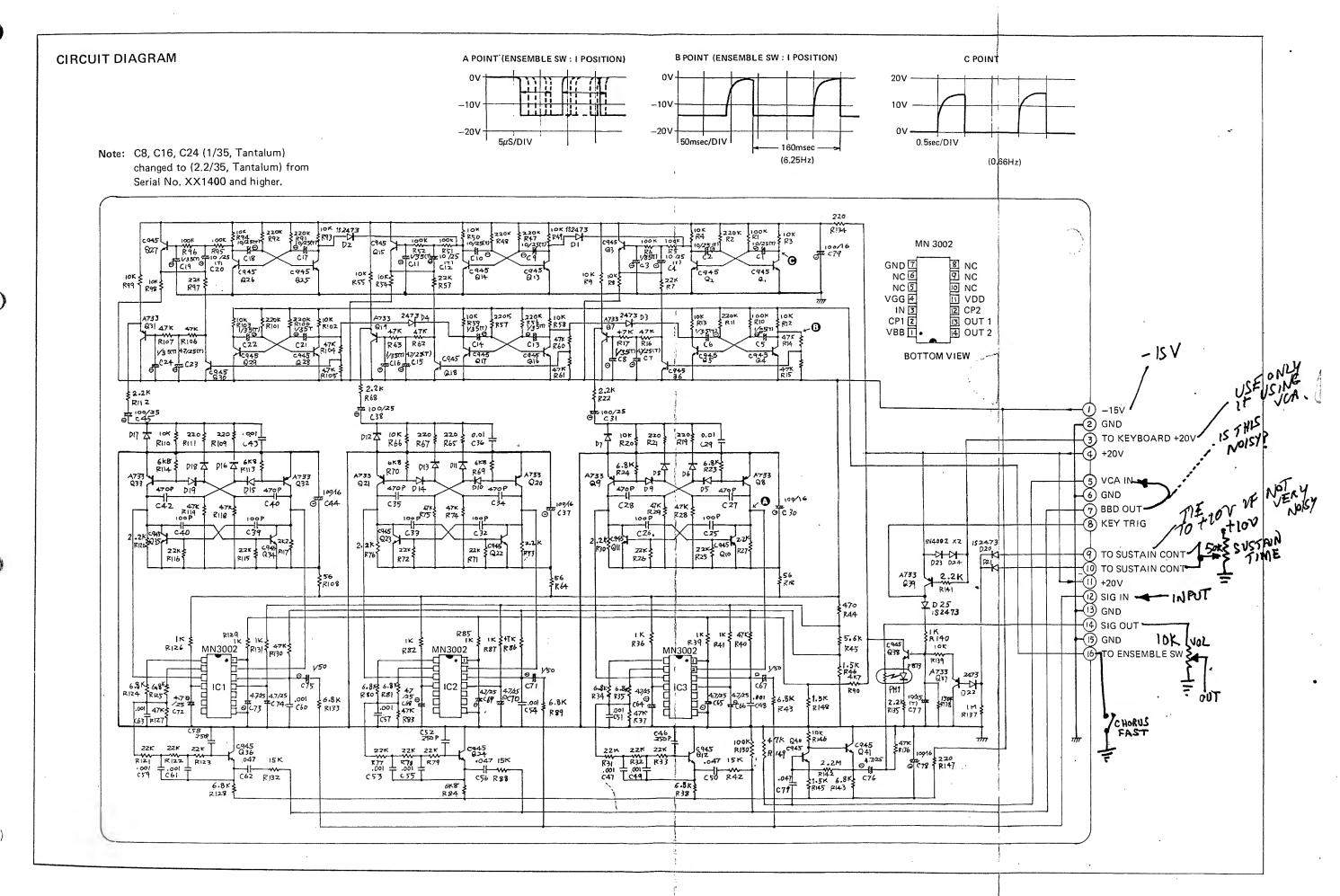
: Tantalum Capacitor

Mylar Capacitor



7. MODULATOR (ET-8A)

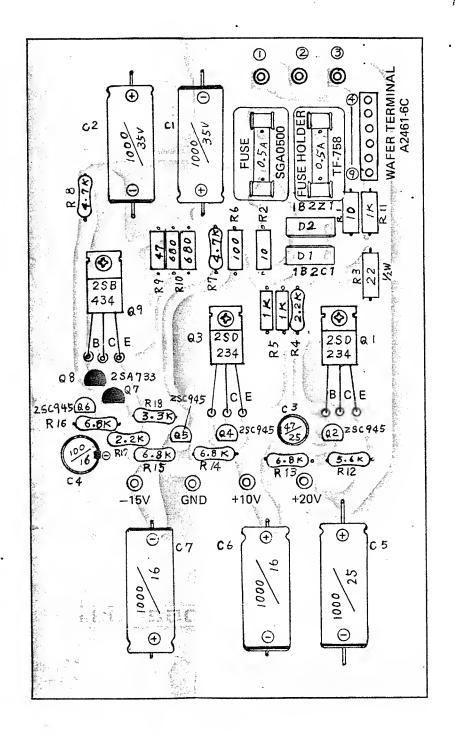


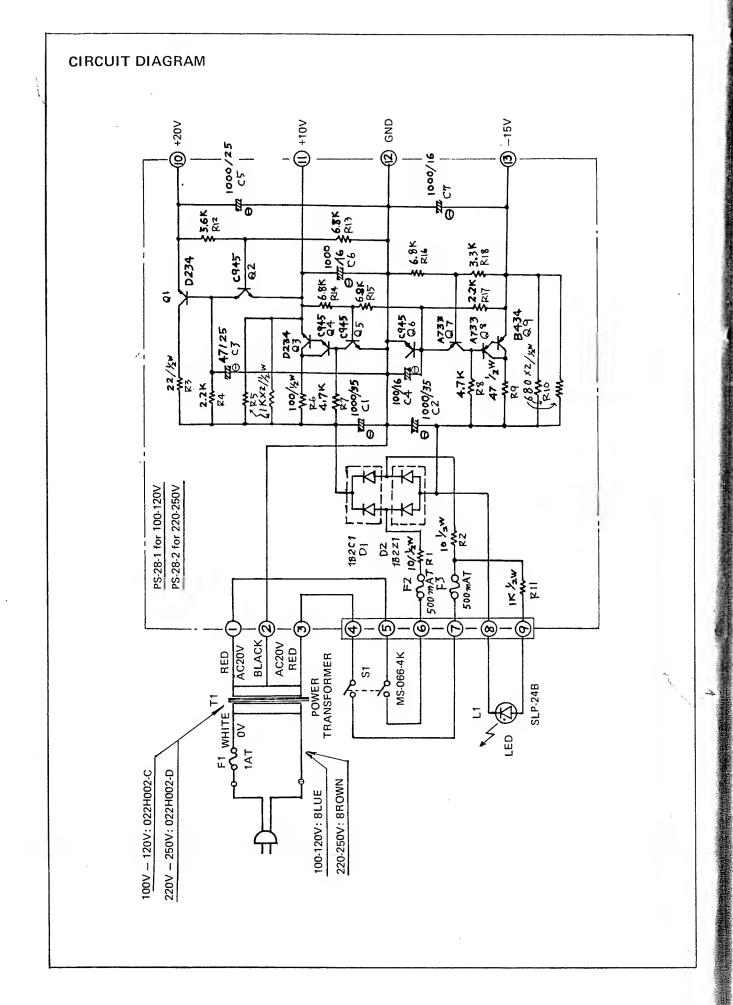


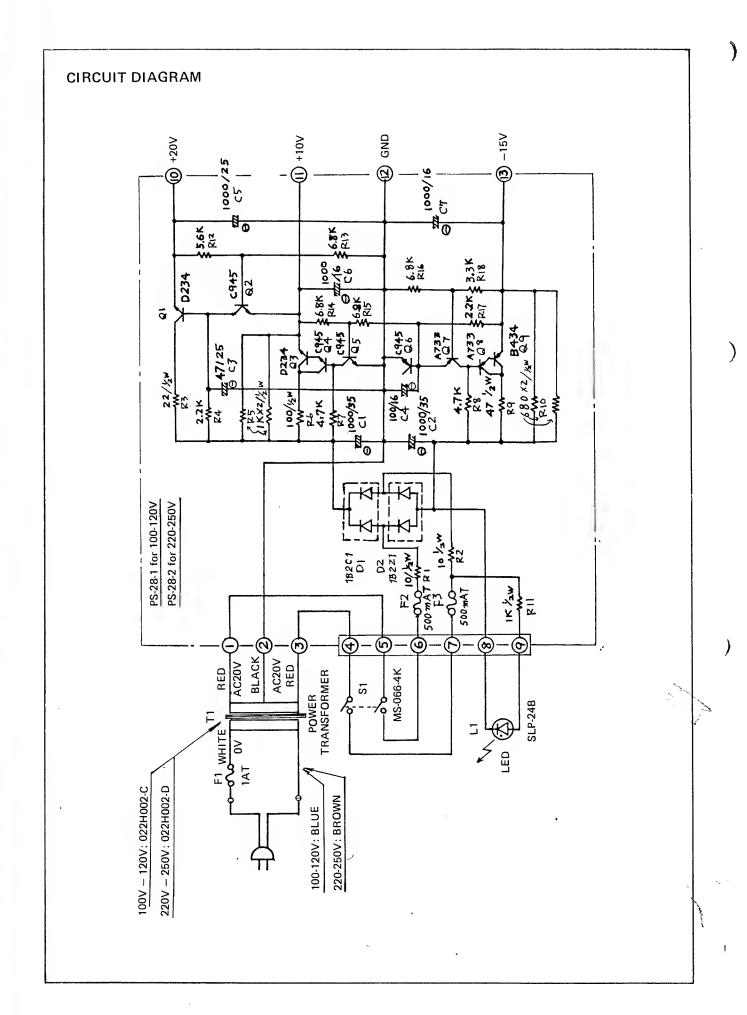
TOWER SOLLE

PC BOARD, PARTS LAYOUT (PS-28)

PS-28-1 for 100-120V, without Fuse PS-28-2 for 220-250V, with Fuse





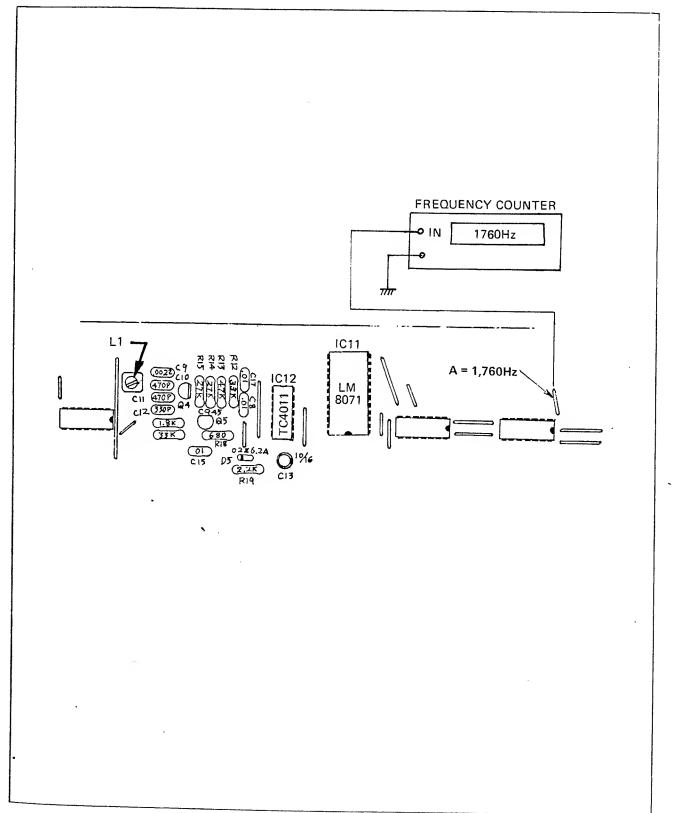


9. ADJUSTING PROCEDURES

9-1. TUNING MASTER GENERATOR

Set TUNE control on the front panel to the center position. Connect a frequency counter as illustrated below.

Adjust coil L1 located on the center of TONE GENERATOR PC BOARD ASSEMBLY, AGH-2B, so that the frequency of "A" is 1,760Hz.

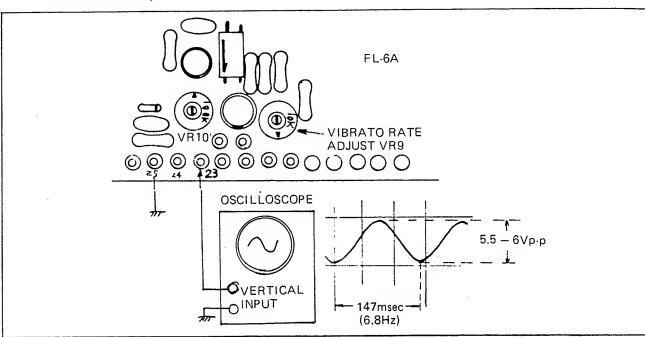


9-2. ADJUSTING VIBRATO

9-2-1. VIBRATO RATE

Connect an oscilloscope to No. 23 terminal of TONE CONTROL BOARD ASSEMBLY, FL-6, as illustrated below.

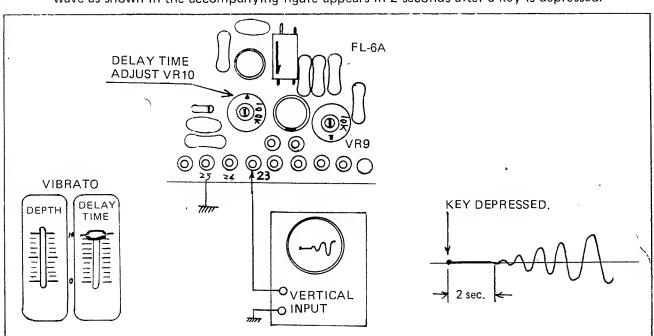
Adjust vibrato rate adjust trimmer potentiometer, VR9, to obtain 147msec (6.8Hz) sine wave on the oscilloscope.



9-2-2. VIBRATO DELAY TIME

Set DELAY TIME control on the front panel to the uppermost position, 10 point. Connect an oscilloscope to No. 23 terminal of TONE CONTROL BOARD ASSEMBLY, FL-6, as illustrated below.

Adjust vibrato delay time adjust trimmer potentiometer, VR10, to obtain vibrato modulation wave as shown in the accompanying figure appears in 2 seconds after a key is depressed.



10. PARTS LIST

1976-11-20 RS-202

| PARTS NO. | PARTS NAME & DESCRIPTION |
|---------------|---|
| 1) GENERAL AS | SEMBLY |
| · 081H031 | Cabinet Assembly, Top |
| 081H098 | Cabinet Assembly, Bottom |
| 081H089 | Side Block, Right |
| 081H090 | Side Block, Left |
| 066H001 | Cord Box No. 1 |
| 065-007 | Cord Box Lid |
| 004H001 | Keyboard Assembly, KS-161A |
| 998 | Key Felt, No. 998 |
| 162-015 | Power Supply Assembly, PC-15 (PC Board Ass'y, PS-28, 146-028) |
| 164-008 | Control Panel Assembly, CS-8 |
| 144H002B | Tone Generator and Gate Circuit PC Board Assembly, AGH-2B |
| 151-008 | Modulator Circuit PC Board Assembly, ET-8 |
| 338-021 | Wiring A |
| 338-025 | Wiring E |
| 2) 164-008 | CONTROL PANEL ASSEMBLY, CS-8 |
| 072H008 | Front Panel No. 8 |
| 072H009 | Sub-chassis No. 9 |
| 002H003 | Tablet Switch Assembly, RS-15B |
| 001-007 | Lever Switch, ESL-18-3S (ENSEMBLE) |
| 028-033 | Potentiometer, Slide, 10K(A), EVA-QOAC16-A14 |
| 028-035 | Potentiometer, Slide, 50K(A), EVA-QOAC16-A54 |
| 028-024 | Potentiometer, Slide, 50K(B), EVA-QOAC16-B54 |
| 028-028 | Potentiometer, Slide, 1M(B), EVA-QOAC16-B16 |
| 030-055 | Potentiometer, Rotary, 100K(B), EVC-BOAK15-B15 |
| 018-052 | LED, SLP-24B |
| 062-004 | Bracket No. 4 (LED Holder) |
| 000 - 0 | Spring Nut, MP-8, for Bracket No. 4 |
| 068-001 | Bushing No. 1, Chip (in Bracket No. 4) |
| 068-018 | Bushing No. 18, Pipe for Music Rack |
| 009-001 | Jack No. 1, SG-7615, No. 5 |
| 016-003 | Knob, No. 3 |
| 063-001 | Strip, No. 1 |
| 016-021 | Knob, No. 21, TK-1114 |
| 016-036 | Knob, No. 36, Black |
| 001-035 | Power Switch, MS-0664K, Black |
| 102H003 | Long Nut, No. 3 |
| 121-005 | Jack Washer |
| 068-005 | Jack Bushing |
| 338-022 | Wiring B |
| 338-023 | Wiring C |
| 338-024 | Wiring D |